

# NAVAL HEALTH RESEARCH CENTER

---

## *SAMS EPIDEMIOLOGICAL WIZARD (EPIWIZ)*

### *USER'S GUIDE*

*D. Pearsall*

*H. Ly*

*T. V. Trank*

20020402 116

*Technical Document No. 01-5E*

Approved for public release; distribution unlimited.



**NAVAL HEALTH RESEARCH CENTER  
P O BOX 85122  
SAN DIEGO, CA 92186-5122  
BUREAU OF MEDICINE AND SURGERY (MED-02)  
2300 E ST. NW  
WASHINGTON, DC 20372-5300**





SAMS EPIDEMIOLOGICAL WIZARD (EPIWIZ)  
USER'S GUIDE

Prepared by:

HOA L. LY  
DIANNA M. PEARSALL  
TAMARA V. TRANK

Naval Health Research Center  
P.O. Box 85122  
San Diego, CA 92186-5122

# SAMS Epidemiological Wizard (EPIWIZ) User's Guide

Dianna Pearsall  
Hoa Ly  
Tamara V. Trank

Technical Document No. 01-5E was supported by the Office of Naval Research, Arlington, VA, under Work Unit No. 60001. The views expressed in this article are those of the authors and do not necessarily reflect the official policy or position of the Department of the Navy, Department of Defense, or the U.S. Government. Approved for public release; distribution unlimited. Human subjects participated in this study after giving their free and informed consent. This research has been conducted in compliance with all applicable Federal Regulations governing the Protection of Human Subjects in Research.

## Table of Contents

Section 1. Introduction .....	3
1.1 Purpose of the EPIWIZ User's Guide .....	3
1.2 Objectives of the EPIWIZ Program .....	3
1.3 Background and References .....	3
Section 2. EPIWIZ System Summary .....	3
2.1 EPIWIZ Application .....	3
2.2 Programming Language .....	3
2.3 Security/Privacy .....	4
2.4 Flexibility .....	4
2.5 Maintenance .....	4
2.6 System Organization .....	4
2.7 System Menu Options .....	4
Section 3. Accessing the System .....	4
3.1 Creating a Desktop Icon .....	4
3.2 Getting Started .....	5
3.3 Exiting the System .....	6
3.4 Mouse Techniques .....	6
3.5 Choosing a Menu .....	7
3.6 Scrolling a List .....	7
3.7 Choosing a Check Box, Radio Button, or Push Button. ....	7
Section 4. Program Transactions (EPIWIZ) .....	8
4.1 SAMS Update .....	8
4.2 Query .....	12
4.3 Reports .....	17
4.3.1 Weekly DNBI Report .....	17
4.3.2 Medical Event Report (6220.12A) .....	18
Section 5. WinZip Settings and Errors .....	19
5.1 WinZip Settings .....	19
5.2 WinZip Error Messages .....	22
Appendix A. Data Reference Tables .....	A-1
Appendix B. Installation Guide .....	B-1
Appendix C. How to Create an NHRC Diskette .....	C-1

## **Section 1. Introduction**

**1.1 Purpose of the EPIWIZ User's Guide.** The objective of the User's Guide is to provide medical personnel the information necessary to effectively use the SAMS (Shipboard Non-Tactical ADP Program (SNAP) Automated Medical System) Epidemiological Wizard (EPIWIZ). In addition, this guide will supply users with a detailed description of the basic structure and features of the system.

**1.2 Objectives of the EPIWIZ Program.** Deployment Medical surveillance is a critical component of Force Health Protection. The goal of this effort is to provide medical personnel easy access to shipboard sick-call information to monitor trends, prevent injuries and diseases, facilitate reporting, and enhance medical outcomes.

**1.3 Background and References.** The following references provide technical and background information.

- a) The Naval Health Research Center (NHRC) study of the workloads of shipboard independent duty corpsmen (IDCs) established a requirement for computer support for shipboard medical departments and led to OPNAVINST 6400.1A.
- b) Epidemiological Interactive System (EPISYS), developed at NHRC, provides menu-driven access to Navy inpatient data.
- c) CAPT Beddard (EPMU-5) requested assistance with the development of an NHRC extract from the Shipboard Non-Tactical ADP Program (SNAP) Automated Medical System (SAMS), Version 8.
- d) Bureau of Medicine Instructions; BUMEDINST 6440.5A CH-1 and BUMEDINST 6440.6 were used in the development of EPIWIZ.

## **Section 2. EPIWIZ System Summary**

**2.1 EPIWIZ Application.** The goal of EPIWIZ is to enhance medical readiness by converting SAMS medical encounter data into meaningful surveillance information. This application is designed as an interface between SAMS and the Microsoft® Office for Windows, 97, (SR-2 Copyright© 1985-1997) applications PowerPoint, Excel, and Word. A data dictionary was created to decipher data stored in SAMS. This capability allows the user to have enhanced capabilities, such as building customized queries, generating standardized reports, and designing briefs and presentations using pivot tables, charts, graphs.

**2.2 Programming Language.** EPIWIZ is written using Microsoft® Visual FoxPro 6.0 (SP3, Copyright© 1988-1999 [FoxPro]). FoxPro uses a database management (DBM) approach to ensure consistency of information collected, locate where information is stored, and determine how data are processed. FoxPro was chosen to ensure compatibility between EPIWIZ and SAMS.

**2.3 Security/Privacy.** There is no security module with this program. Security is the responsibility of the user's system administrator. Data should be collected and stored using the guidelines of the 1974 Privacy Act.

**2.4 Flexibility.** Since EPIWIZ was created using the FoxPro utilities, enhancements and updates to the system can be accomplished with minimal programming. Information gathered and collected can be transferred to and from SAMS, such as the SAMS shipboard rosters. Additionally, it can be used with spreadsheet, graphics, and word processing applications.

**2.5 Maintenance.** The primary maintenance function consist of an Archive function, which allows the user to back up and delete old files while retaining key file and format definitions.

**2.6 System Organization.** EPIWIZ was developed for the user with minimal familiarity with computers. The program has five main menus, shown in Figure 1, which include (1) System, (2) Edit, (3) Update, (4) Query, and (5) Report.

**2.7 System Menu Options.** The System menu is operated using either a mouse or the keyboard to select the menu options described in Section 3. These options include the Calculator, Calendar/Diary, and Quit function.

### **Section 3. Accessing the System**

**3.1 Creating a Desktop Icon.** After the package has been installed (see Appendix C Installation Guide) create a desktop icon. Note: the default directory is the SAMS EPIWIZ directory (c:\smwiz\_nt). To place an icon on the desktop:

1. Click on the right mouse button on an empty space on your desktop.
2. Select **New**.
3. Select **Shortcut**.
4. A new screen will open and ask for the location and name of the item. Search for the item (smwiz\_nt.exe).
5. Click the **Next** button.
6. Select a name for this shortcut. Enter the name you want to call this package (i.e., **SAMS EPIWIZ** or **EPIWIZ**).
7. Then select **Finished**. The icon is now on the desktop and the package is ready to run.

3.2 Getting Started. When you click on the desktop icon, the following screen will appear.

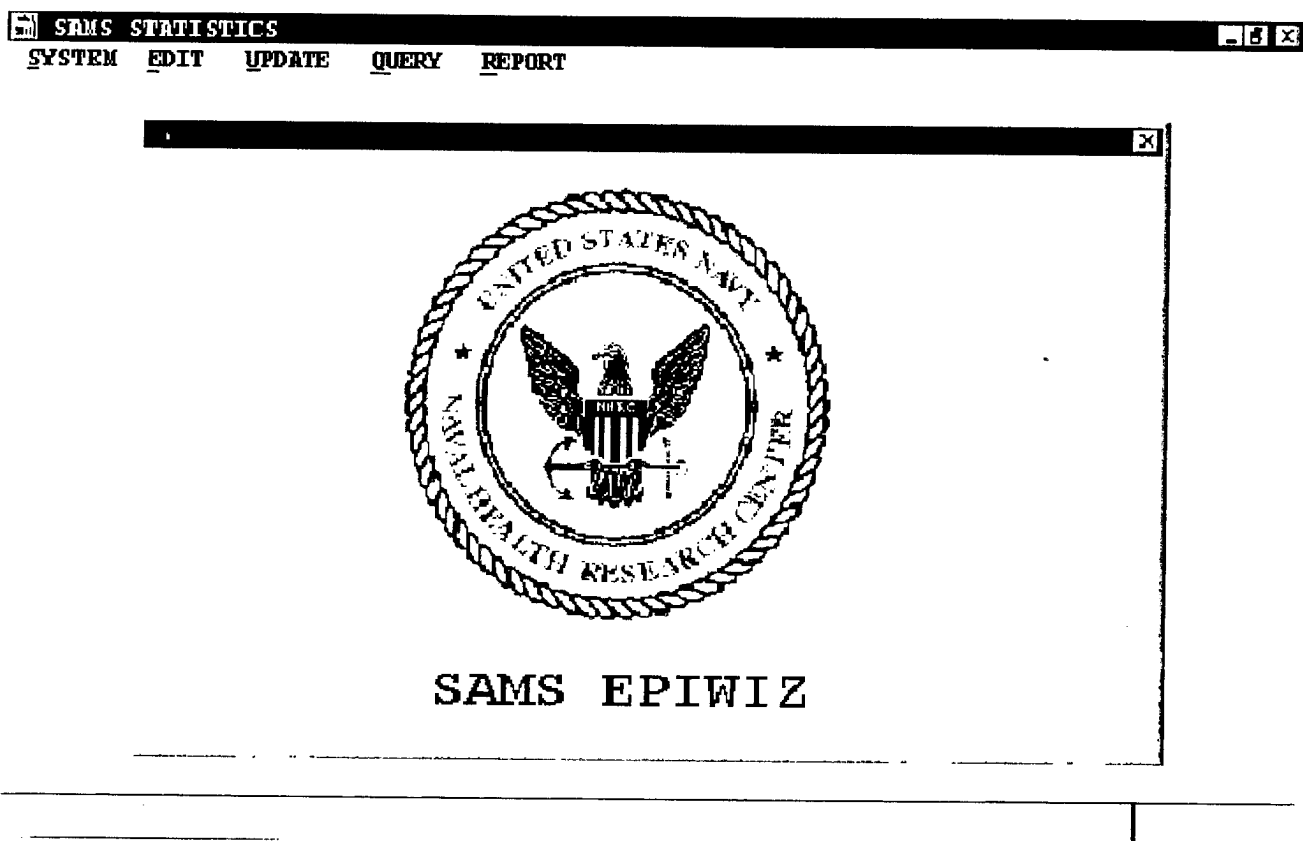


Figure 1. Main menu

**3.3 Exiting the System.** Choose **Quit** from the **System** menu to exit the program. If any windows are left open, the system will ask if the user wants to close them.

```
| SAMS STATISTICS | _ | x |
SYSTEM EDIT UPDATE QUERY REPORT
QUIT
```

End of Session. Thank You!!!

---

### 3.4 Mouse Techniques.

**Point** - Position the pointer at the specific location on the screen. When moving the mouse, the pointer moves in a similar manner.

**Click** - Point to an object then press and release the mouse button once.

**Double-click** - Point to an object then press and release the mouse button twice in rapid succession. To select an immunization from the readiness list you must double-click on the check box.

**Drag** - Hold the mouse button down, roll the mouse until the pointer is in the desired location, and release the mouse button.



### 3.5 Choosing a Menu.

Keyboard:

1. Press the **Alt** key to select the first menu pad, then press the **Right** or **Left** arrow keys to select other menu pads on the menu bar. Or press the **Alt** key in conjunction with the highlighted letter of the menu pad.
2. Press Enter to display the menu popup window.
3. Press the **Up** or **Down** Arrow keys to select an option. Press Enter to choose the option or enter the highlighted letter of the option and press Enter.

Mouse:

1. Point to the menu pad and click the left mouse button to display the menu popup window.
2. Point to the desired option and click the left mouse button.

### 3.6 Scrolling a list.

Keyboard:

1. Tab to the list.
2. Press the **Down** arrow key or **UP** arrow key.

Mouse:

1. Click on the **Up** or **Down** arrow on the scroll bar.
2. Holding down the mouse button will cause the scrolling to continue until released.

### 3.7 Choosing a Check Box, Radio Button, or Push Button.

Keyboard:

1. Tab to the check box, radio button, or push button.
2. Press Enter.

Mouse:

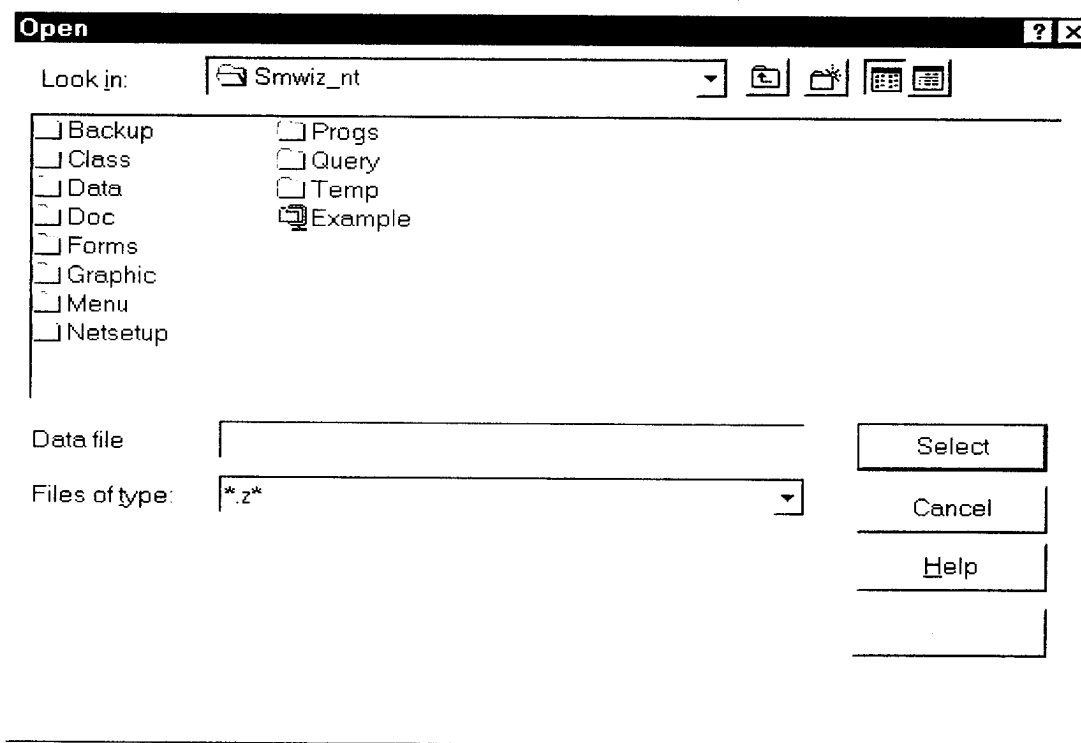
1. Point to the check box, radio button, or push button.
2. Click the left mouse button.

## Section 4. Program Transactions (EPIWIZ)

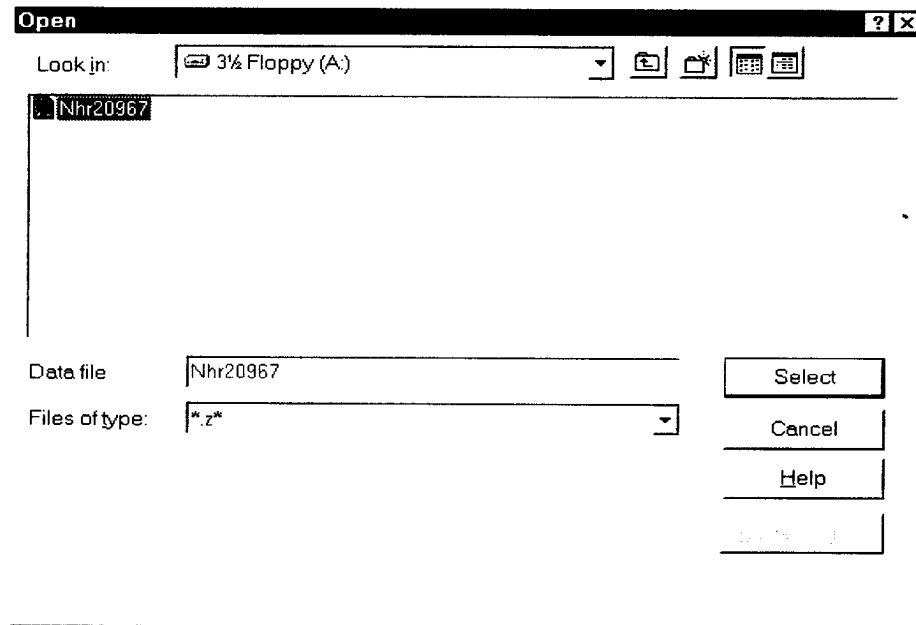
There are three major functions under EPIWIZ: SAMS Update, Query, and Report.

**4.1 SAMS Update.** This function takes the data elements needed for the Medical Event Report (6220.12A) and the Weekly Disease and Non-Battle Injury (DNBI) Report from the various SAMS files and compiles them into a database. After all of the records from SAMS are compiled, this function allows the user to view the records. To close the window click on the X in the right-hand corner. This function will not change any of the SAMS data.

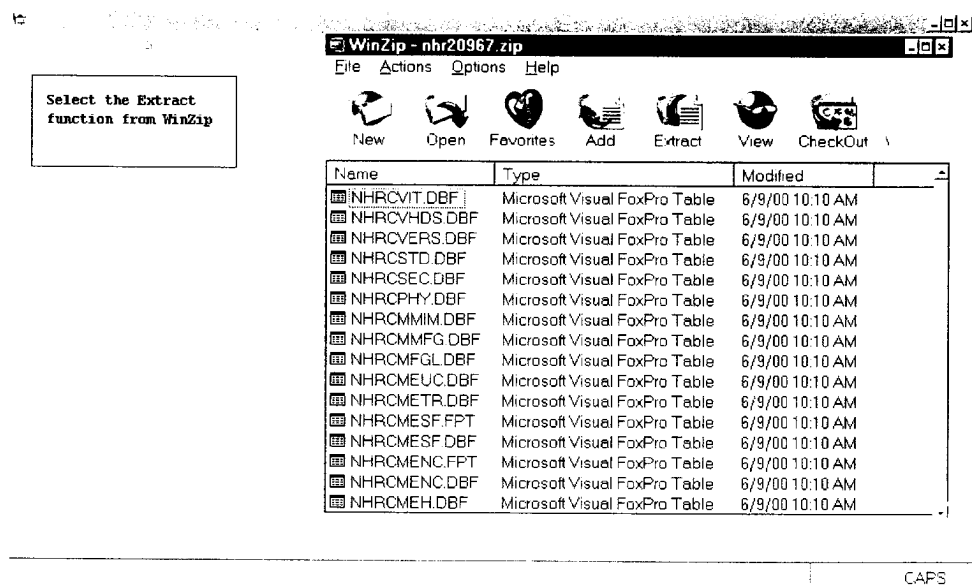
**4.1.1 Select the Update option.** When the Update option is selected, the open window is displayed. Select the drive containing the NHRC data disk. It is usually in the A drive.



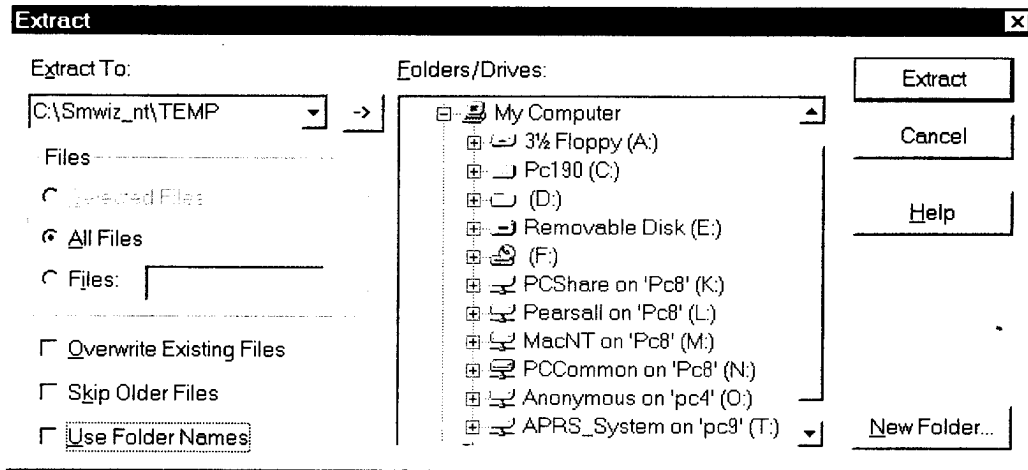
- 4.1.2 Select the file from the drive containing the data. The package will transfer it to a WinZip™ file. The naming convention for the zip file is Nhr and the ship's Unit Identification Code (UIC) (Nhr20967). Select the file if correct, click on the Select button or return to the main menu by clicking on the Cancel button.



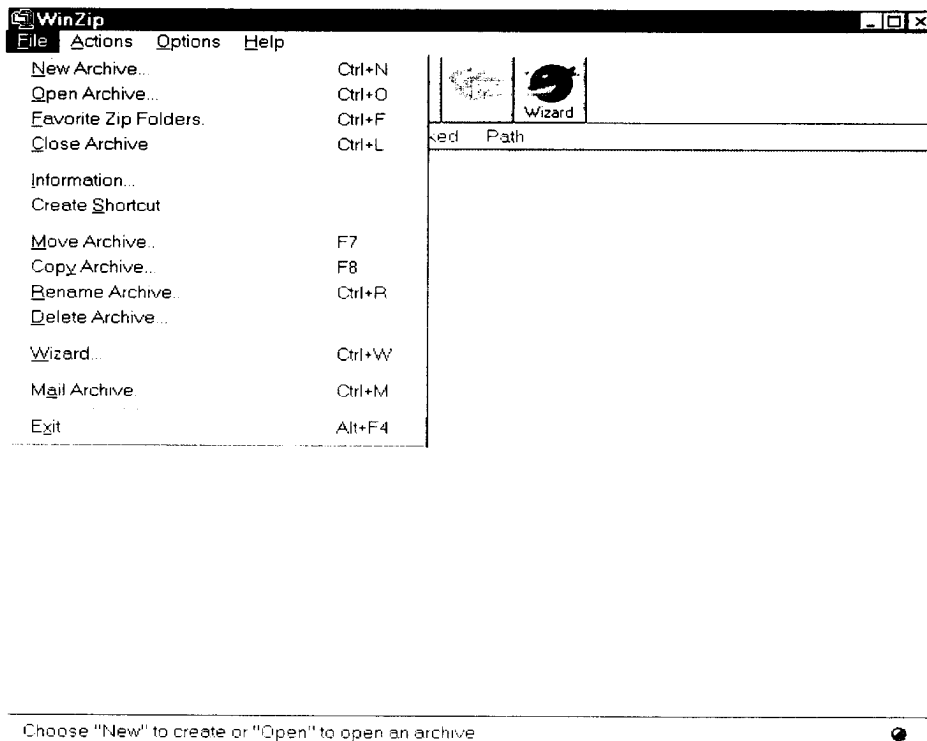
- 4.1.3 WinZip will show the SAMS files. Select the Extract function. If this screen does not come up then see Section 5.2 WinZip Error Messages.



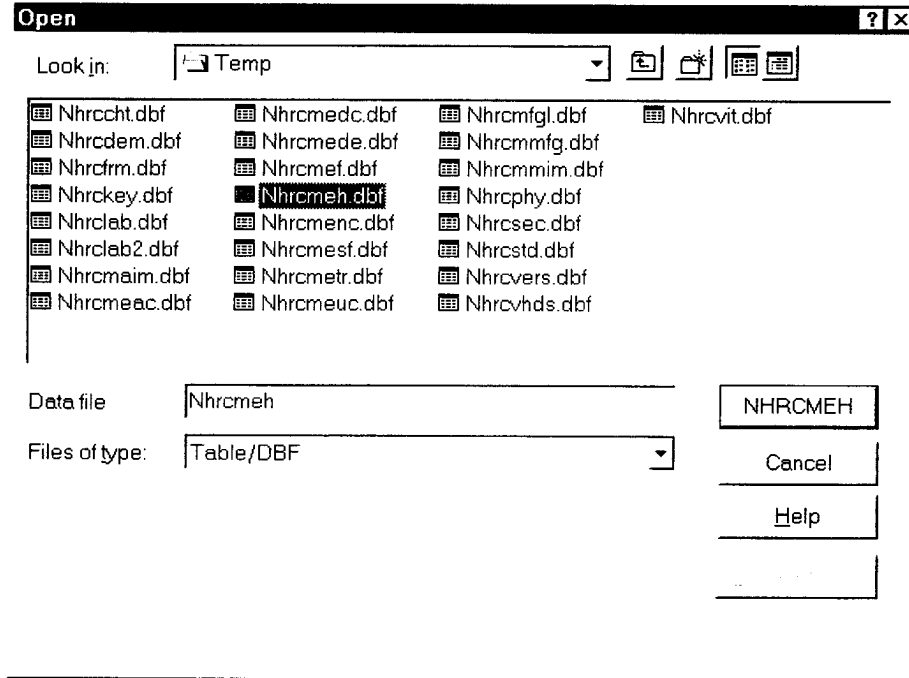
4.1.4 Click on **Extract** when this window appears. Make sure the **Use Folder Names** box is not checked.



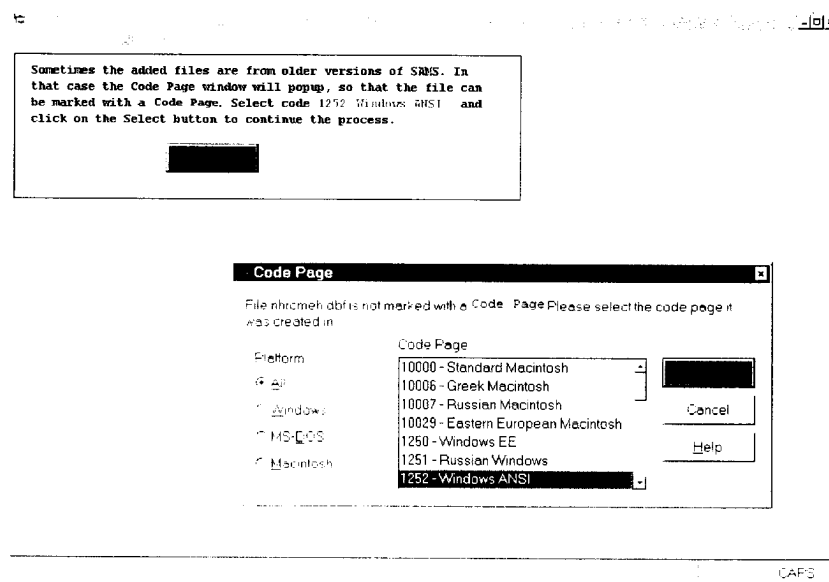
4.1.5 After the files are extracted, the light will be green and will appear on the bottom of the WinZip window. Select **File Exit** to quit WinZip.



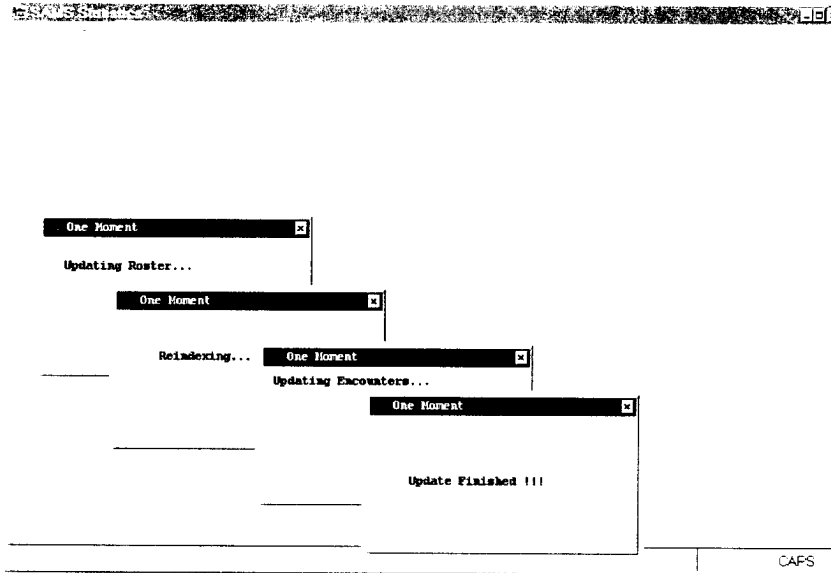
4.1.6 Double-click on the heading file Nhrcmeh.dbf to begin the update.



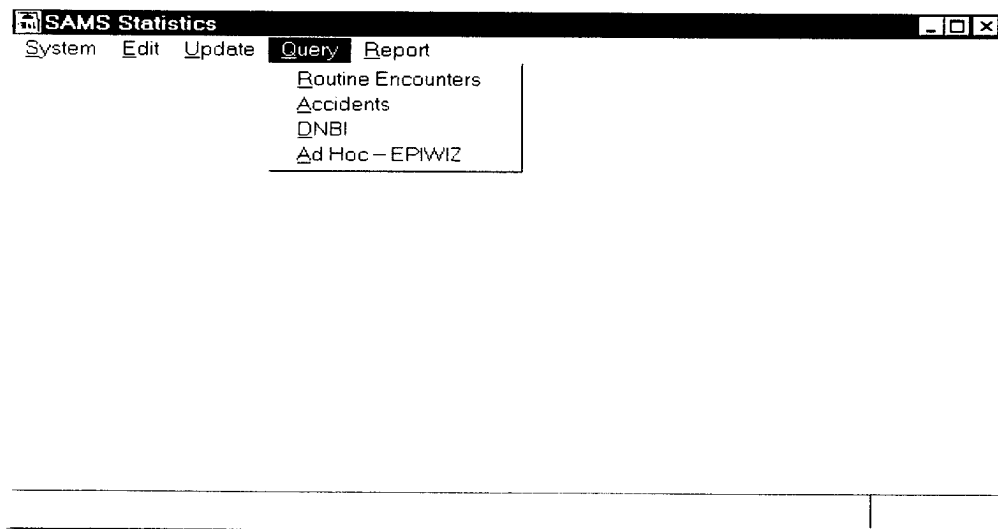
4.1.7 Assigning a Code Page. Some of the databases are written in an older FoxPro format. In that case select code 1252-Windows ANSI then click the Select button to proceed.



4.1.8 The update takes approximately 5 minutes.



4.2 **Query.** When this option is chosen a window is opened and the following prompts are displayed. Currently SAMS EPIWIZ has four queries. After a query is selected the program combines data from encounter and demographic files. It then stores this information into an Excel table. The program then opens Excel so that the user may create tables, graphs, and charts to meet reporting requirements.



#### 4.2.1. Selecting a query date.

**SAMS Statistics**

System Edit Update **Query** Report

- Routine Encounters
- Accidents
- DNBI
- Ad Hoc - EPIWIZ

**SAMS EPIWIZ**

Date From: 01/01/2000 To: 01/31/2000

Report Exit

Once one of the queries has been selected, the SAMS EPIWIZ window will open. Enter the beginning and ending dates for the reporting period.

Select either

Exit

or

Report

#### 4.2.2 Linking the query to Excel.

**Microsoft Excel**

File Edit View Insert Format Tools Data Window Help

Arial 10 B I U

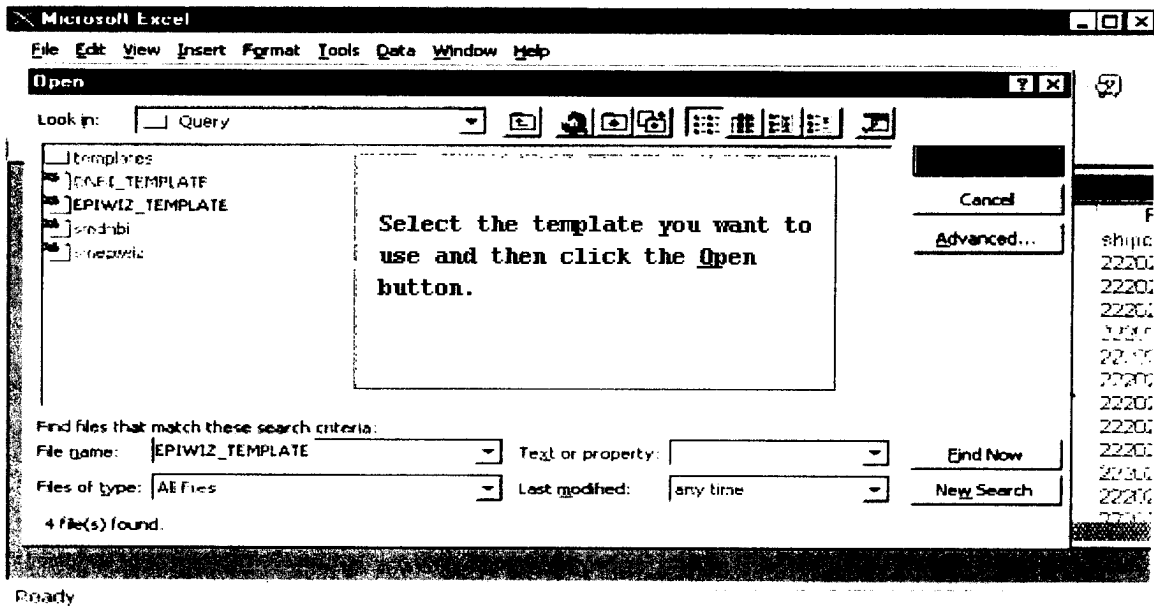
PivotTable - A1 = year

**smeplwiz**

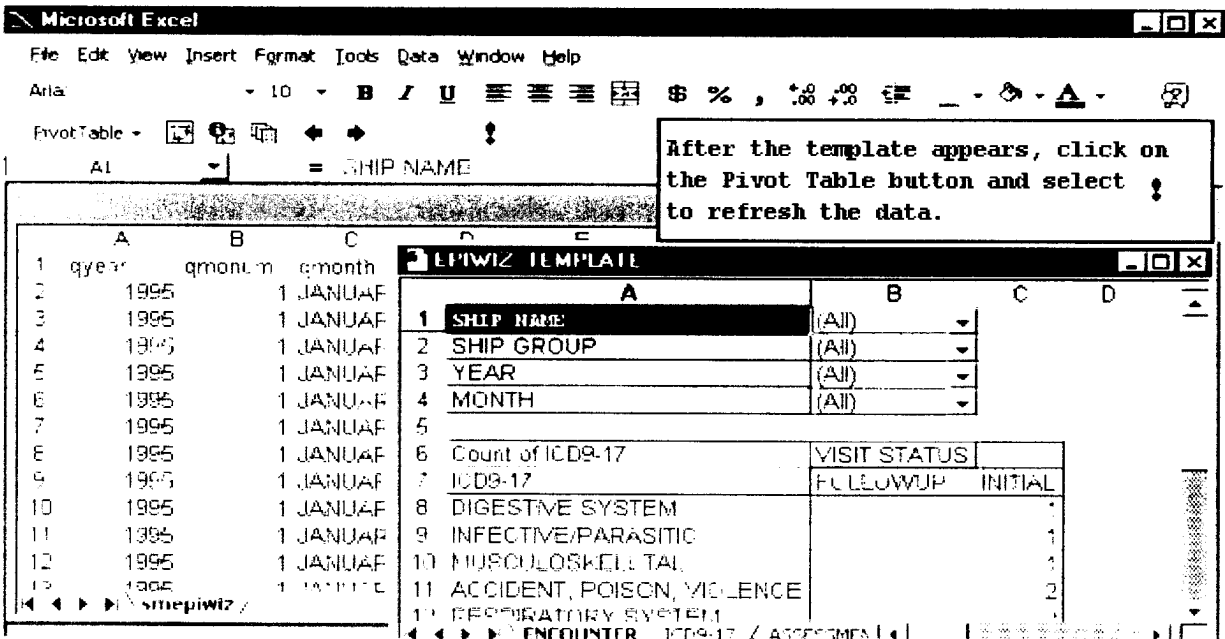
1	A	B	C	D	E	F	G
	year	monum	monoth	endate	isic	shipcode	ship
2	1995	1	JANUARY	-	-	21441	USS GRA
3	1995	1	JANUARY	-	-	21441	USS GRA
4	1995	1	JANUARY	-	-	21441	USS GRA
5	1995	1	JANUARY	-	-	21441	USS GRA
6	1995	1	JANUARY	-	-	21441	USS GRA
7	1995	1	JANUARY	-	-	21441	USS GRA
8	1995	1	JANUARY	-	-	21441	USS GRA
9	1995	1	JANUARY	-	-	21441	USS GRA
10	1995	1	JANUARY	-	-	21441	USS GRA
11	1995	1	JANUARY	-	-	21441	USS GRA
12	1995	1	JANUARY	-	-	21441	USS GRA
13	1995	1	JANUARY	-	-	21441	USS GRA
14	1995	1	JANUARY	-	-	21441	USS GRA

Templates that are linked to the query have been created. To use one of these, select Open under the FILE option.

#### 4.2.3. Selecting a template.

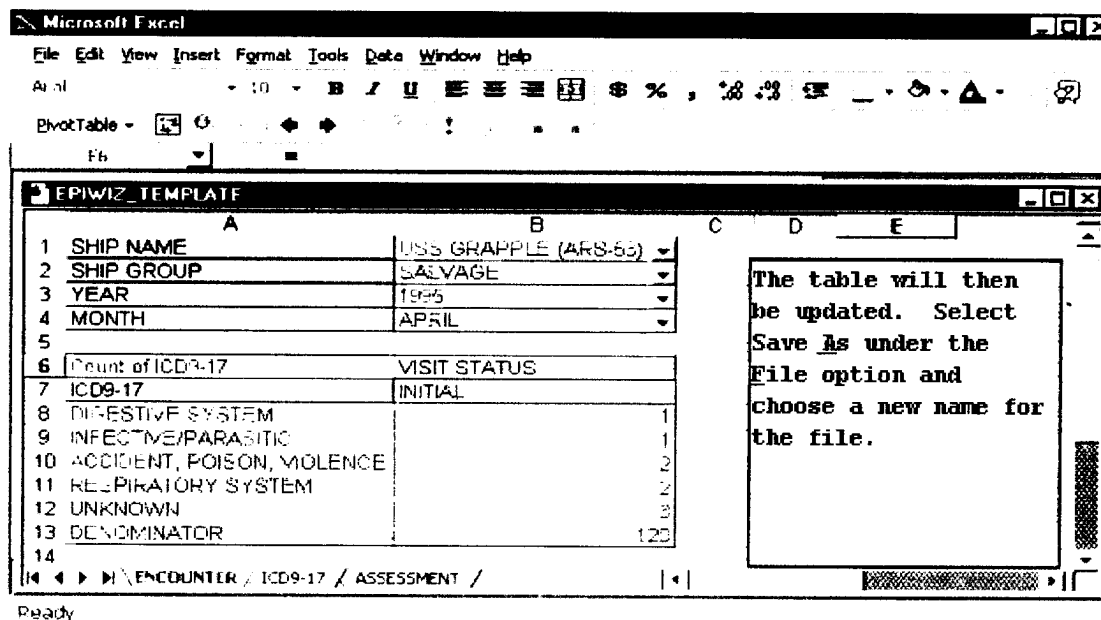


#### 4.2.4 Refreshing the data.

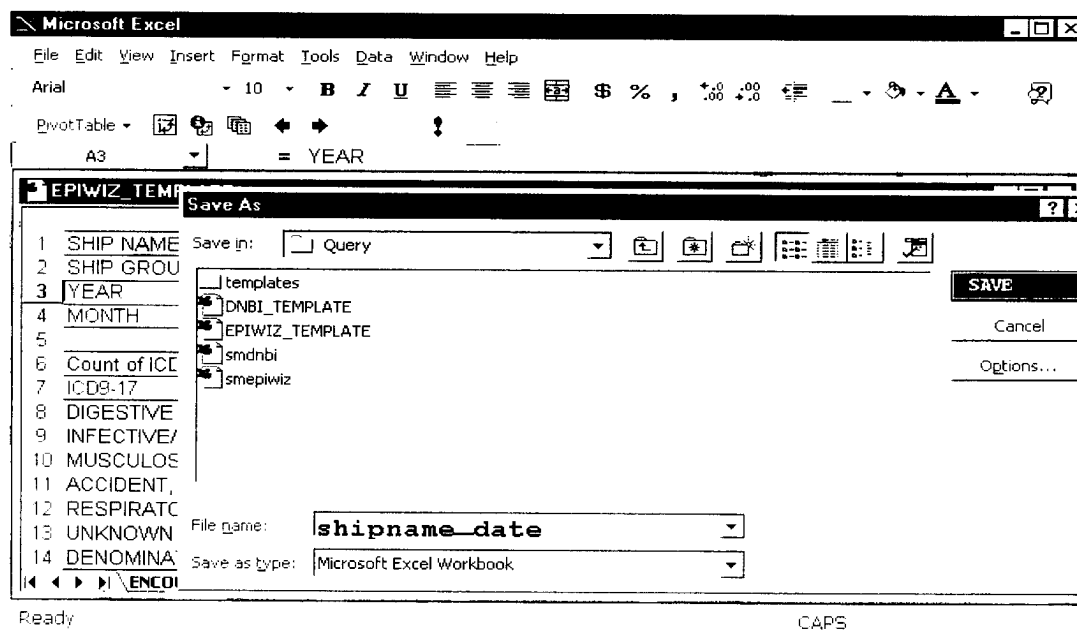




#### 4.2.5. Editing the new information.



#### 4.2.6. Saving the new database.



**4.2.7. Renaming the file.** The file will now be shown with the new given name. To close the file, click on the **X** in the right-hand corner.

Microsoft Excel - grapple\_199504

File Edit View Insert Format Tools Data Window Help

Count of Visit Status

ICD9-17	FOLLOWUP	INITIAL	Grand Total
ACCIDENT, POISON, VIOLENCE	5	63	68
CIRCULATORY SYSTEM	6	2	8
DIGESTIVE SYSTEM		13	13
ENDOC. NUTR. METAB		1	1
GENITOURINARY SYSTEM	1	3	4
ILL-DEFINED CONDITIONS	1	6	7
INFECTIVE/PARASITIC	6	8	14
MENTAL DISORDERS		6	6
MUSCULOSKELETAL	3	9	12
NEOPLASMS		3	3
NERVOUS SYSTEM	4	6	10
RESPIRATORY SYSTEM	8	54	62
SKIN DISEASES		7	7
SUPPLEMENTARY CLASS	1	1	2
UNKNOWN	64	225	289
Grand Total	99	407	506

**4.2.8. Exiting Excel.** To close Excel and return to the SAMS EPIWIZ program, click on the **X** in the upper right-hand corner. Do not save the smeapiwiz table in an updated version of Excel.

Microsoft Excel - smeapiwiz

File Edit View Insert Format Tools Data Window Help

ICD9-17	DATA	TOTAL
NEOPLASMS	TOTAL	3
	%	0.01%
ENDOC. NUTR. METAB	TOTAL	3
	%	0.01%
PREGNANCY/CHILDB	TOTAL	3
	%	0.01%
MENTAL DISORDERS	TOTAL	8
	%	0.04%
SUPPLEMENTARY CLASS	TOTAL	10
	%	0.05%
GENITOURINARY SYSTEM	TOTAL	11
	%	0.05%
ILL-DEFINED CONDITION	TOTAL	15
	%	0.07%

- 4.3 **Reports.** There are two reports in SAMS EPIWIZ. Once one of the reports has been selected, the SAMS EPIWIZ window will open. Enter the beginning and ending dates for the reporting period. Select Report to continue or Exit to cancel.

The screenshot shows two overlapping windows. The top window is titled 'SAMS Statistics' and has a menu bar with 'System', 'Edit', 'Update', 'Query', and 'Report'. The 'Report' menu is open, showing two options: 'Medical Event Report (6220.12A)' and 'Weekly DNBI Report'. The bottom window is titled 'SAMS EPIWIZ' and contains a 'Date From:' field with '01/01/2000' and a 'To:' field with '01/31/2000'. Below these fields are two buttons: 'Report' and 'Exit'.

#### 4.3.1 Weekly DNBI Report.

The screenshot shows the 'SAMS Statistics' window with the 'Report' menu open. The 'Report Designer - smdnbi.rpt - Page 1' window is also open, displaying the 'WEEKLY DNBI REPORT'. The report includes a title bar, a menu bar, and a table of data. The table has columns for 'Category', 'Initial Visits', 'Rate %', 'Garrison Refer Rate', 'Days of Light Duty', 'Lost Work Days', and 'Hospital Admissions'. The data is organized into 7 rows, each representing a different category of medical event.

**WEEKLY DNBI REPORT**

Unit Command: \_\_\_\_\_

Dates Covered from 05/01/1995 to 05/07/1995 Troop Strength: 112

Category	Initial Visits	Rate %	Garrison Refer Rate	Days of Light Duty	Lost Work Days	Hospital Admissions
1 Combat/Operational Stress	0	.0000	0.1	0	0	0
2 Dermatologic	0	.0000	0.5	0	0	0
3 GI, infectious	0	.0000	0.5	0	0	0
4 Gynecologic	0	.0000	0.5	0	0	0
5 Heat/cold	0	.0000	0.5	0	0	0
6 Injury Recreational/Sports	0	.0000	1.0	0	0	0
7 Injury, MVA	0	.0000	1.0	0	0	0

#### 4.3.2. Medical Event Report(6220.12A) .

**SAMS Statistics**

System File Edit Upload Data Query **Report**

100%

**Report Designer - smme.frx - Page 1**

**MEDICAL EVENT REPORT**

Unit Command \_\_\_\_\_

Dates Covered from 03/01/1995 to 03/31/1995

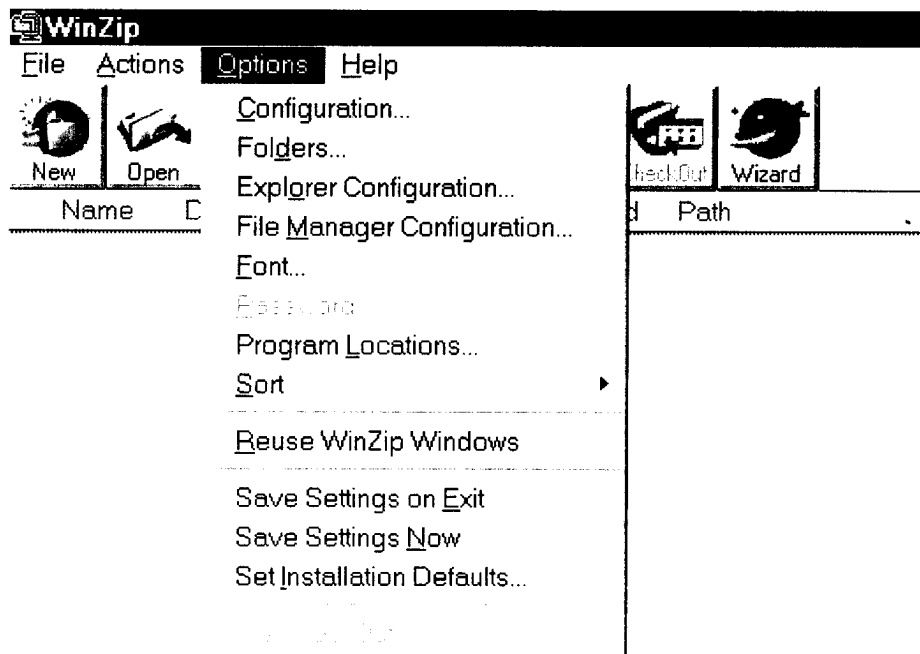
Special Category	Reportable Diseases	Reportable within 24 hrs	Count
Exclusive			

To print the report, click on the printer symbol.

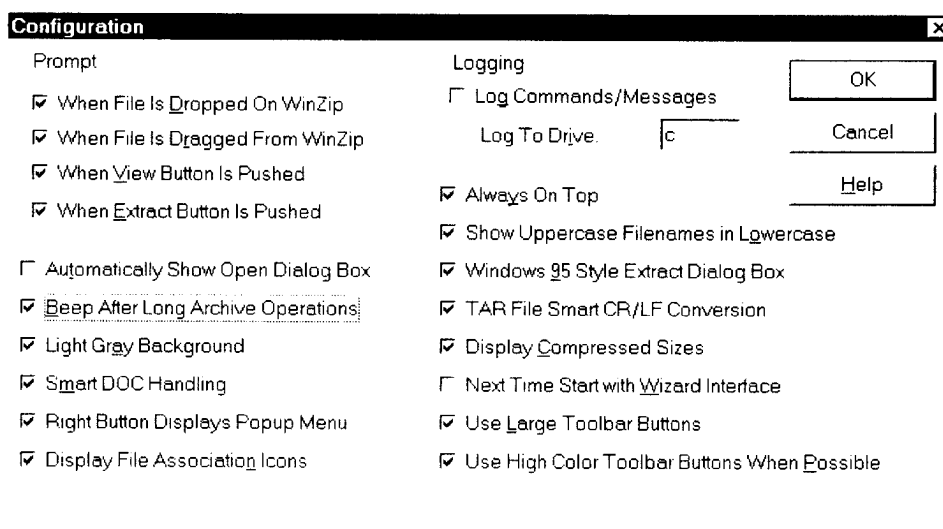
To exit without printing, click on the door symbol.

## Section 5. WinZip Settings and Errors

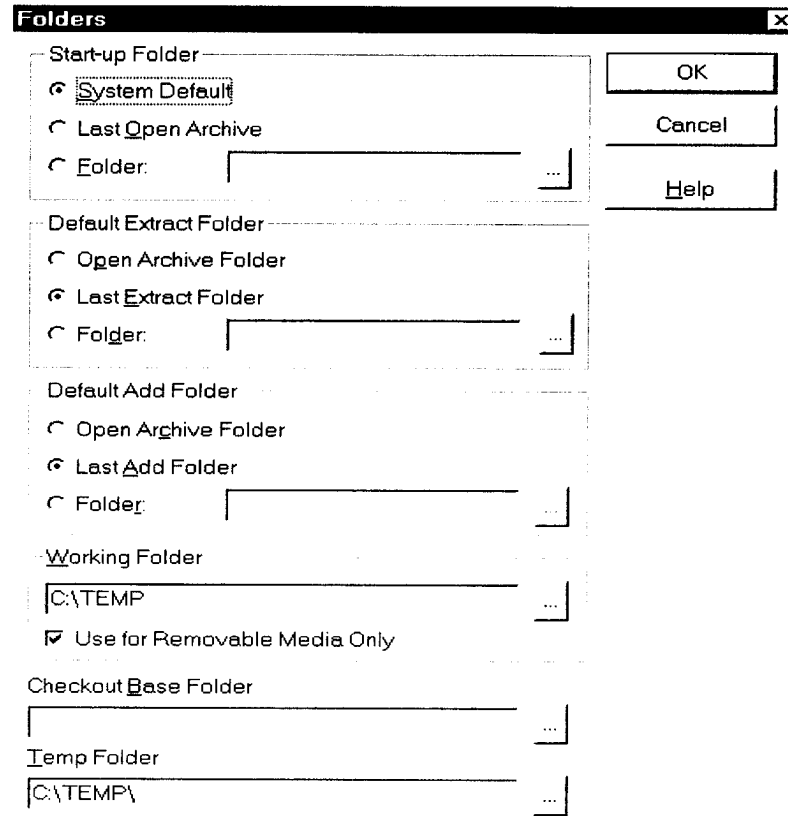
**5.1. WinZip Settings.** It is important to check the default settings. The following pictures are the recommended Option settings for WinZip.



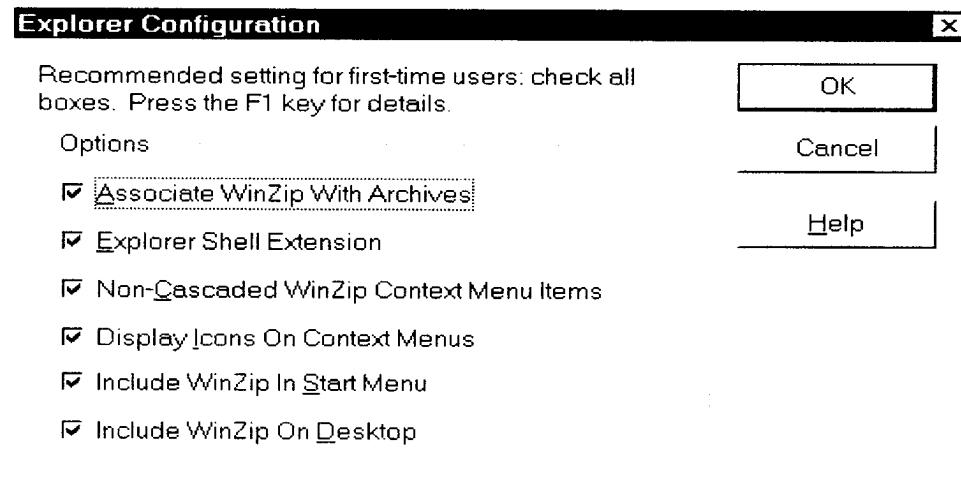
### 5.1.2. Configuration.



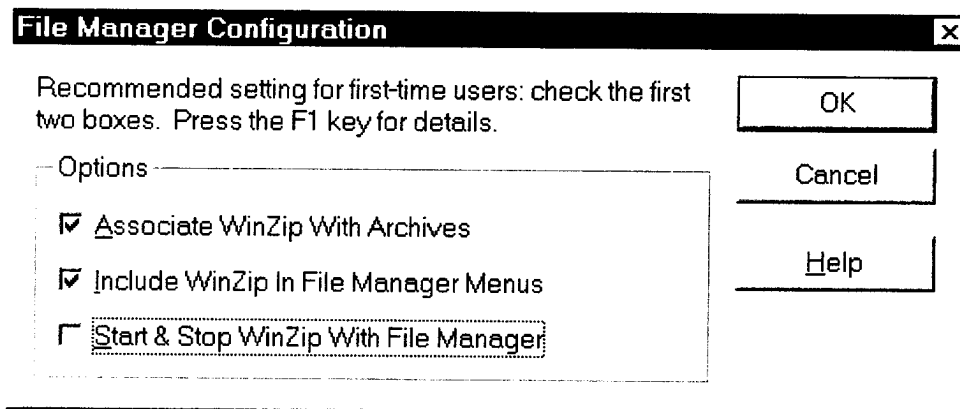
### 5.1.3. Folders.



### 5.1.4. Explorer Configuration.



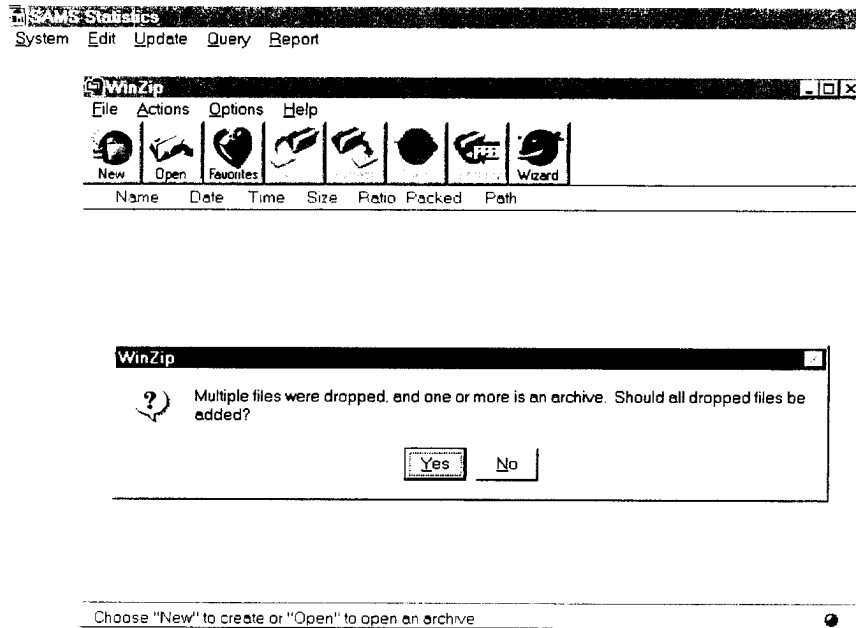
#### 5.1.5. File Manager Configuration.



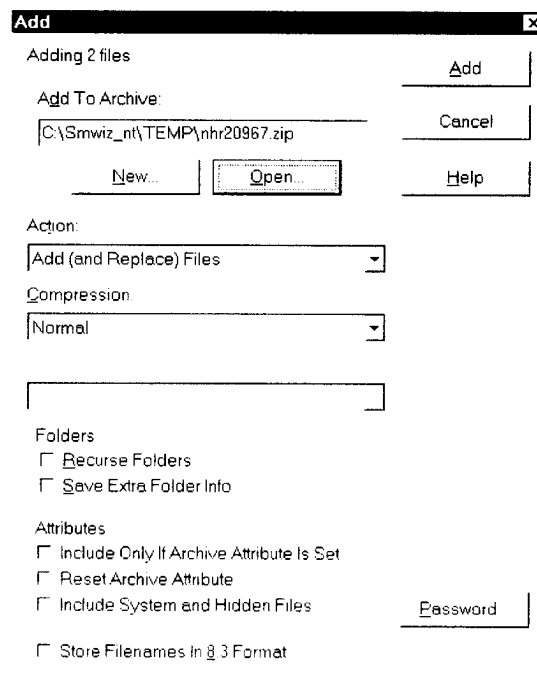
#### 5.1.6. Exit WinZip.

<u>F</u> ile	<u>A</u> ctions	<u>O</u> ptions	<u>H</u> elp
	<u>N</u> ew Archive...		Ctrl+N
	<u>O</u> pen Archive...		Ctrl+O
	<u>F</u> avorite Zip Folders...		Ctrl+F
	<u>C</u> lose Archive		Ctrl+L
	<u>I</u> nformation...		
	<u>C</u> reate <u>S</u> hortcut		
	<u>M</u> ove Archive...		F7
	<u>C</u> opy Archive...		F8
	<u>R</u> ename Archive...		Ctrl+R
	<u>D</u> elete Archive...		
	<u>W</u> izard...		Ctrl+W
	<u>M</u> ail Archive...		Ctrl+M
	<u>E</u> xit		Alt+F4

**5.2. WinZip Error Messages.** If the following error is received while running the Update procedures, click Yes button.

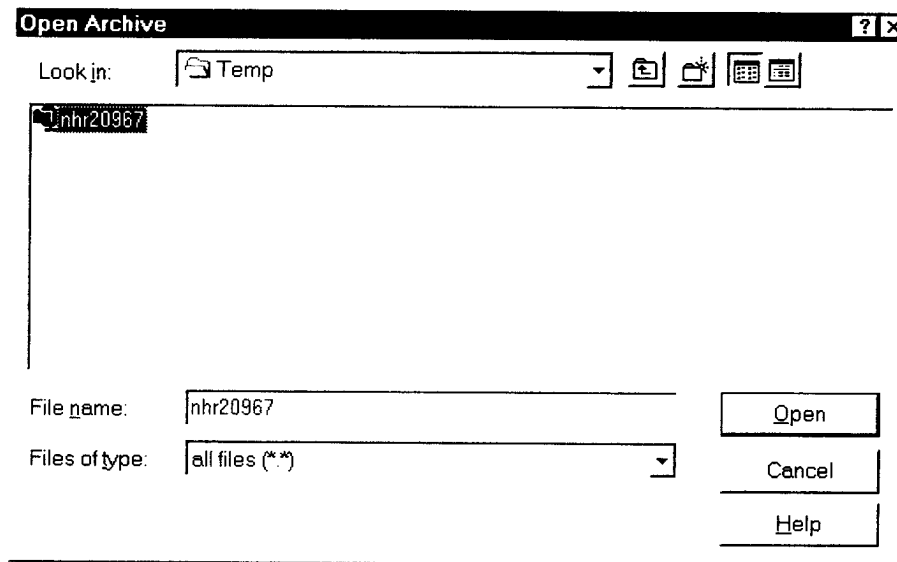


**5.2.1. Step 1.** After selecting Yes the Add screen will appear. Select Add

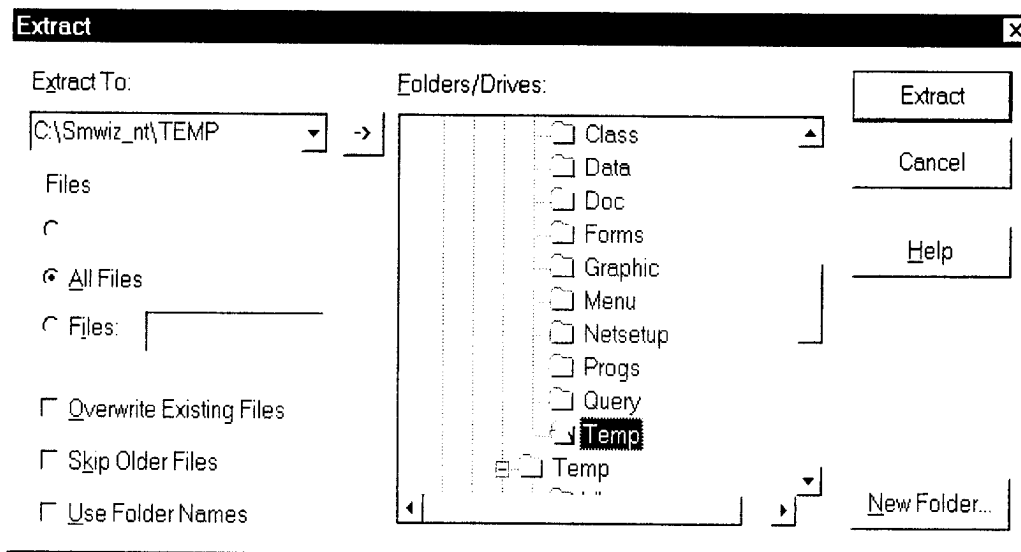




**5.2.2. Step 2.** The next screen will show the file transferred from the A drive. Select the file and close the window.



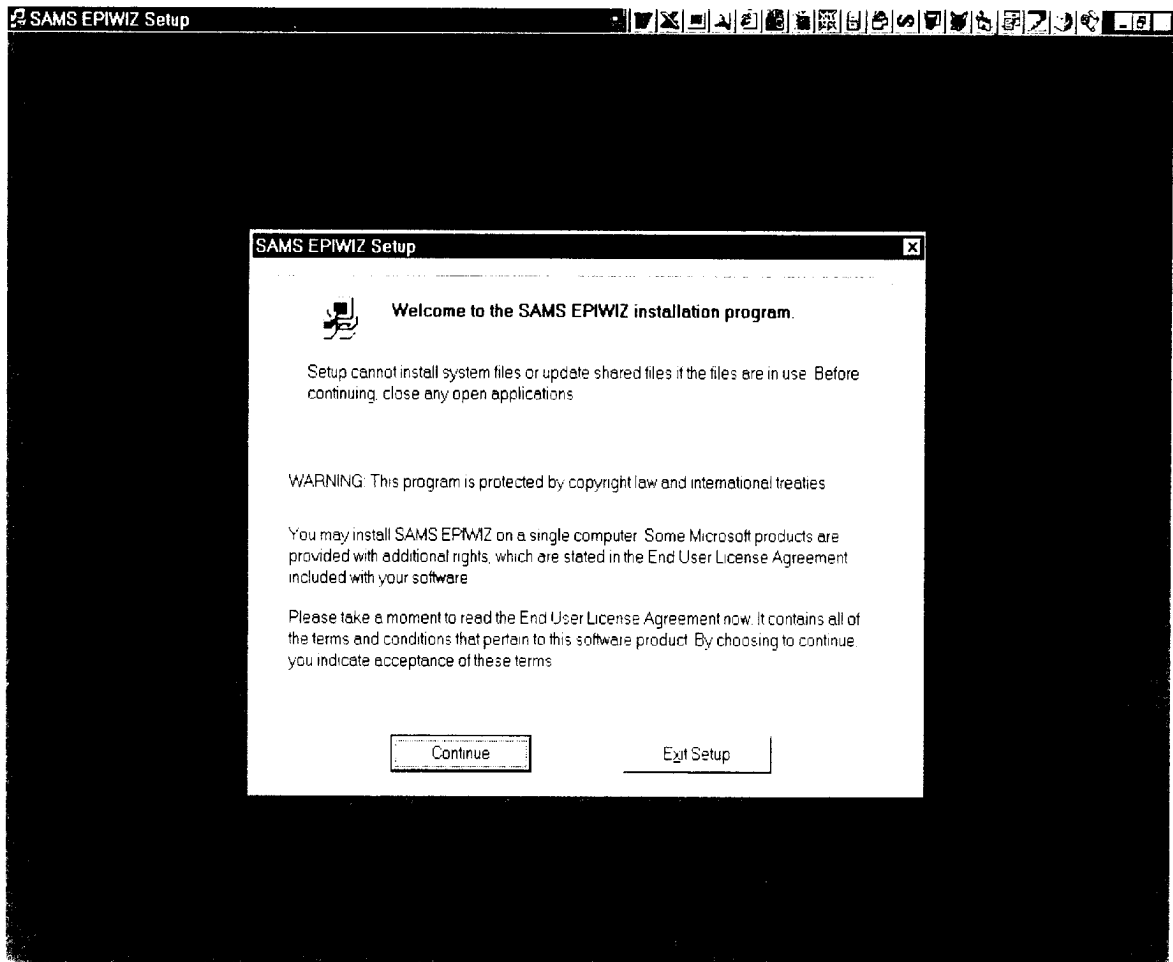
**5.2.3. Step 3.** Finally the Extract window will appear. Select Extract and continue with the updating process.



## Appendix B. Installation Guide

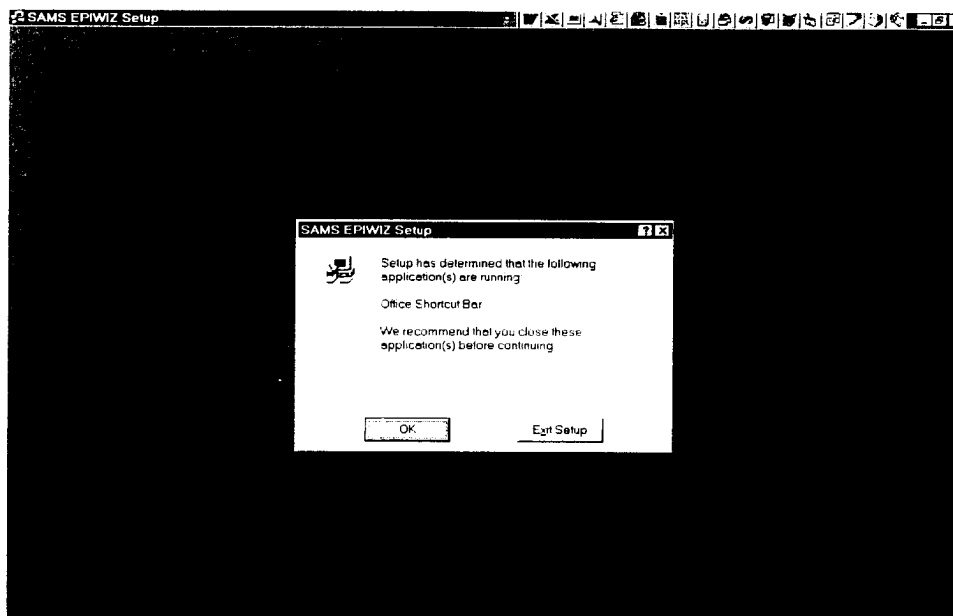
### SAMS EPIDEMIOLOGICAL WIZARD (EPIWIZ) Installation Guide

**Step 1. Install EPIWIZ.** Select Setup (setup.exe) on the installation disk. The first screen to appear is the Welcome page. To begin the process, click the Continue button.

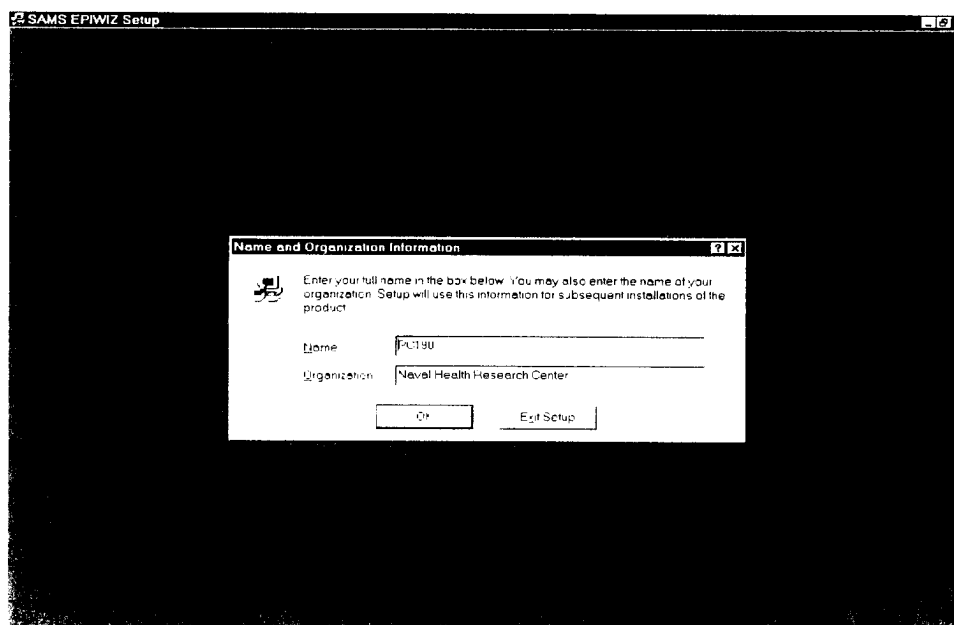


**Step 2. Close Office Bar.** The program will not continue with the installation until the Office Shotcut Bar is closed. If it is open the following message will appear. After the bar is closed click OK to continue.

## Appendix B. Installation Guide

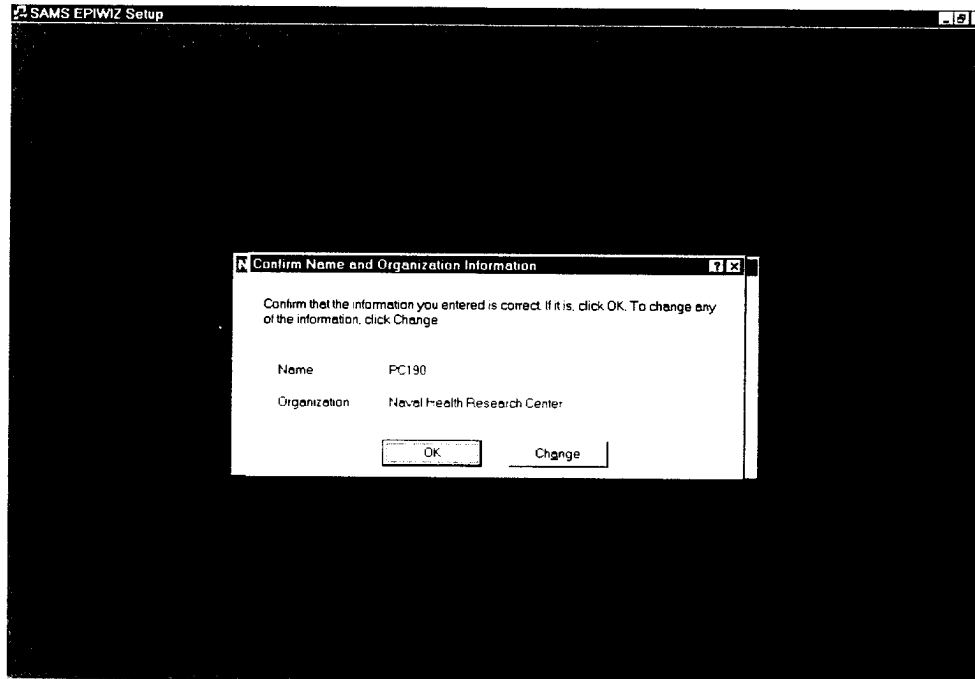


**Step 3. Enter Name or Organization.** The setup will take the name or organization designated at the time the computer was installed. The name listed below is an example only. This can be edited or accepted. Once the name is completed click **OK** to continue.

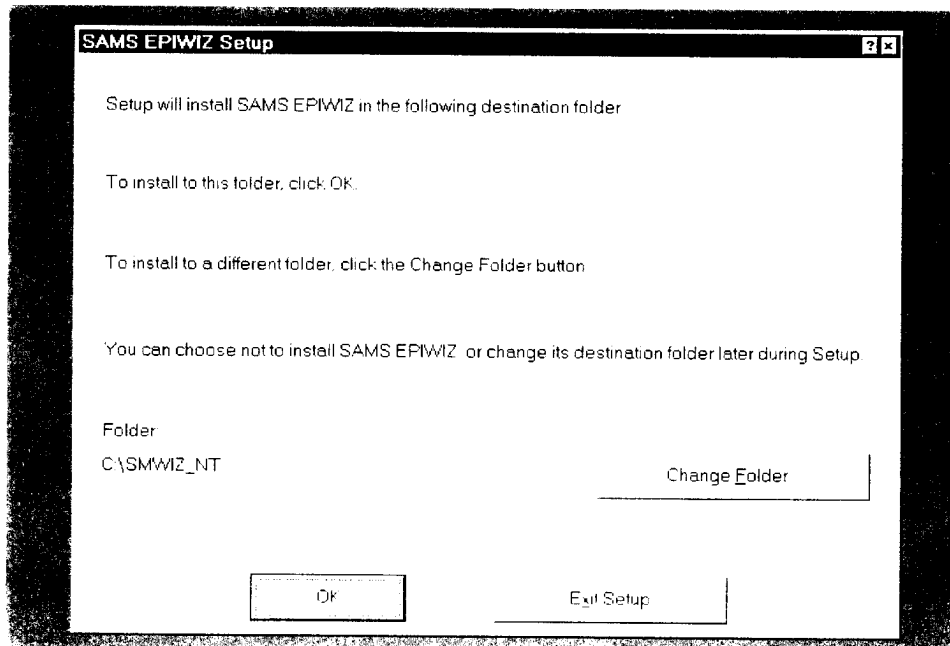


## Appendix B. Installation Guide

**Step 4. Confirm Name or Organization.** To confirm the information click OK.

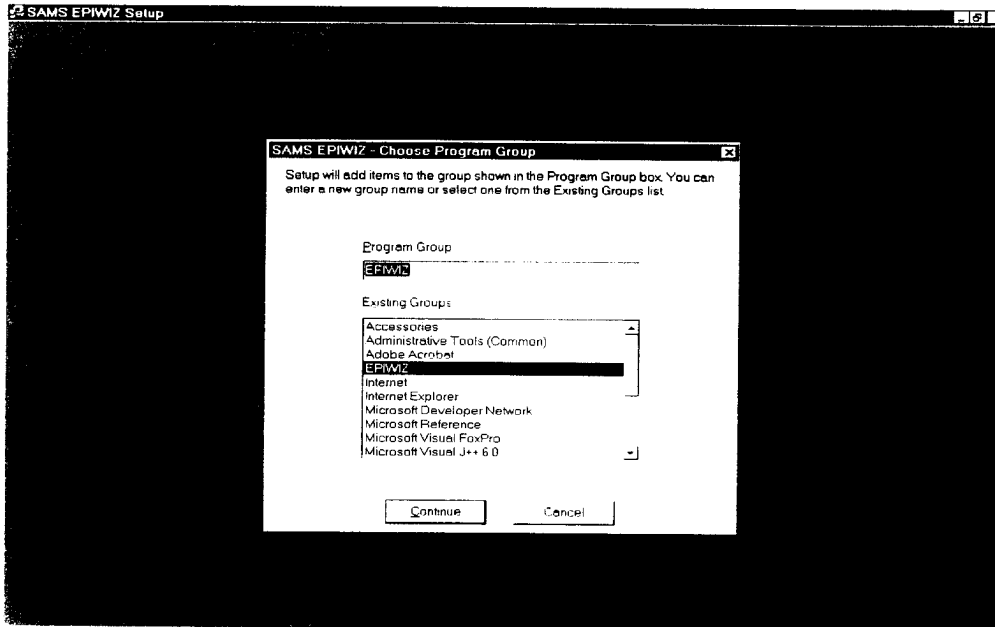


**Step 5: Confirm SAMS EPIWIZ Setup destination folder.** The default for EPIWIZ is C:\SMWIZ\_NT. To change the folder click the Change Folder button or click OK to continue with the installation.

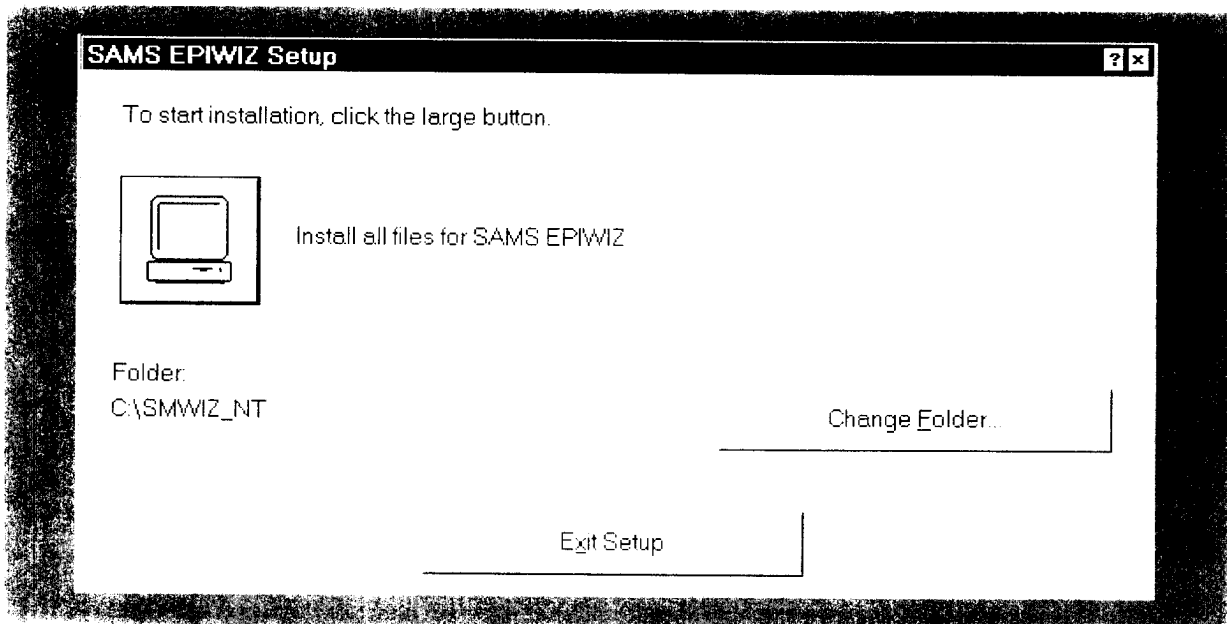


## Appendix B. Installation Guide

**Step 6: Choose Program Group.** A programming Group has already been selected for this package. Do not change it from EPIWIZ. Click the Continue button.

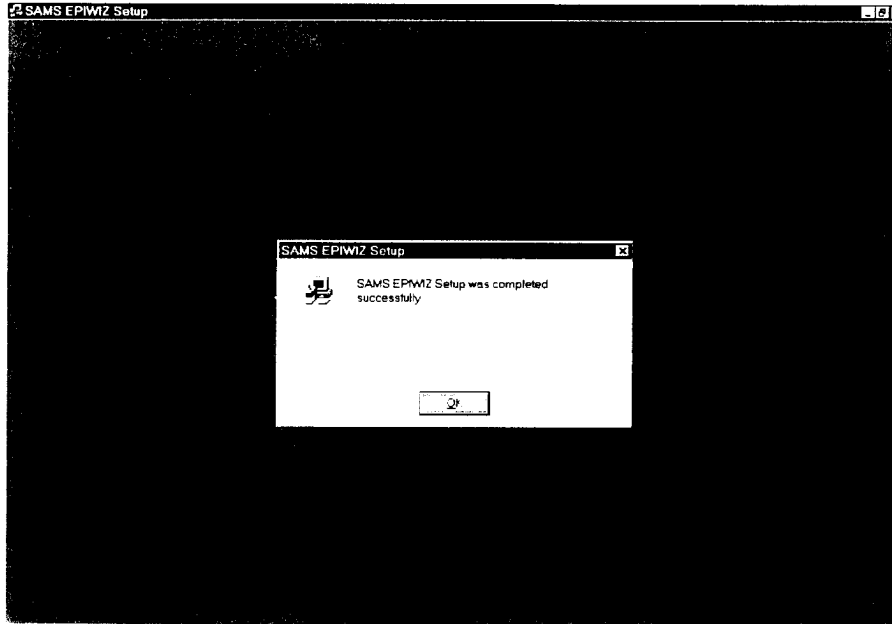


**Step 7: Begin the Install.** To begin the installation, click on the large monitor icon.



## Appendix B. Installation Guide

**Step 8. Complete Installation.** Once all of the files have been stored successfully onto the user's system, the following screen will be



displayed. Click OK to exit.

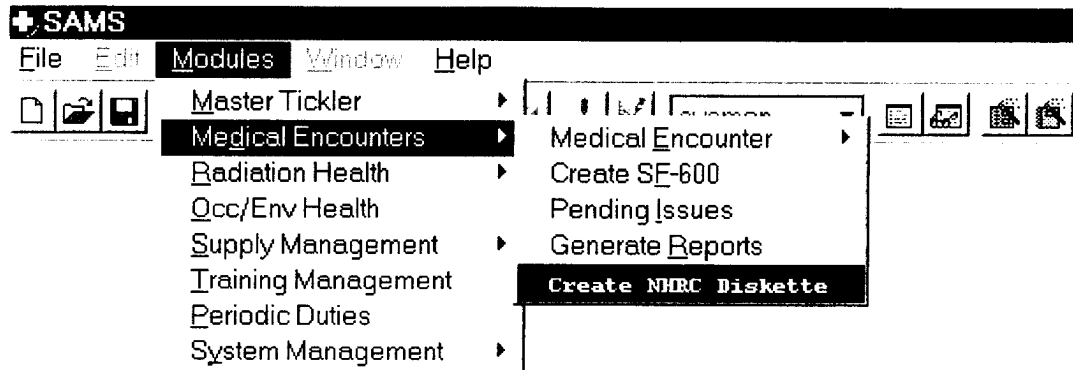
**Step 9. Create a Desktop Icon.** After the package has been installed, create a desktop icon. Note: the default directory is the SAMS EPIWIZ directory (C:\SMWIZ-NT). To place an icon on the desktop:

1. Click **right** on an empty space on your desktop.
2. Select **New** button.
3. Select **Shortcut**.
4. A new screen will open and ask for the location and name of the item. Search for the item (smwiz\_nt.exe).
5. Click the **Next** button.
6. Select a name for this shortcut. Enter the name you want to call this package (i.e., **SAMS EPIWIZ** or **EPIWIZ**).
7. Then select **Finished**. The icon is now on the desktop and the package is ready to run.

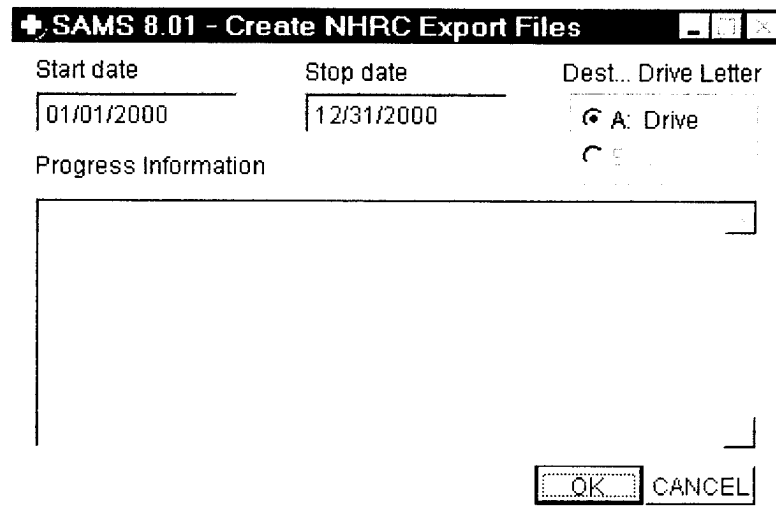
**Step 10. Open Database Connectivity (ODBC) Object Package.** To run the EPIWIZ program make sure that the Object Package under the Accessories menu for the Windows operating system has been loaded. This can be done by selecting from the operating system CD UPDATE. Do not use full install. Talk to the your system manager if you have any questions.

## Appendix C: How to Create an NHRC Diskette

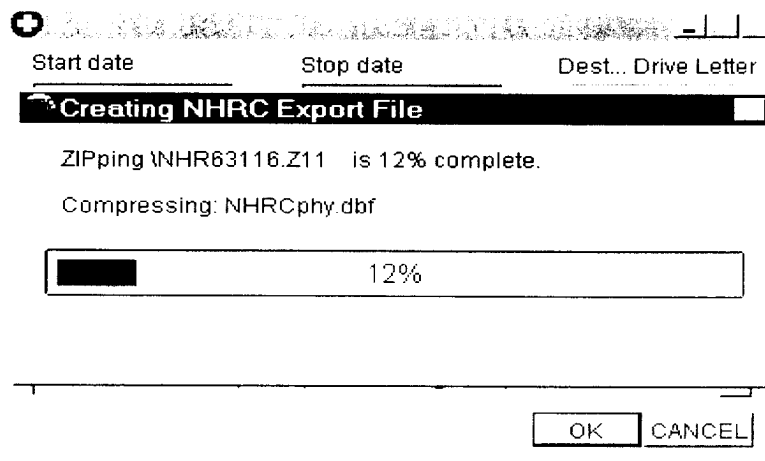
Step 1. Click on Modules and select Medical Encounters and under that menu select Create NHRC Diskette.



Step 2. Enter date for data collection period. Select drive A and click Enter button or click on OK. Make sure that you have a floppy disk in drive A.



Step 3. Data are loading when this screen appears. It will take approximately 5 minutes to load.



## Appendix C: How to Create an NHRC Diskette

Step 4. Click the OK button.

The dialog box titled "SAMS 8.01 - Create NHRC Export Files" contains the following fields and controls:

- Start date:** 01/01/2000
- Stop date:** 12/31/2000
- Dest... Drive Letter:** A: Drive (selected), E: Drive
- Progress Information:**
  - Initializing NHRC Library
  - Creating NHRCKey Data Files
  - Service member (mkey) table exported.
  - Demographics (mdem) table exported.
  - Physicals (mphy) had nothing to export.
  - Monitoring (monitor) had nothing to export.
  - Women's Issues (mfem) had nothing to export.
- Buttons:** OK, CANCEL

Step 5. If the OK button does not light up, look in the A drive to see if the file has been uploaded. The file name should be "Nhr"+ UIC. Check the size of the file to make sure it is not 0 KB.

The Windows Explorer window titled "Exploring - 3 1/2 Floppy (A:)" shows the following details:

- File Edit View Tools Help**
- Address bar:** 3 1/2 Floppy (A:)
- Left pane (All Folders):** Desktop, My Computer, 3 1/2 Floppy (A:)
- Right pane (Contents of '3 1/2 Floppy (A:)' table):**

Name	Size	Type
Nhr63116.z11	13KB	Z11 F
- Status bar:** 1 object(s) selected, 12.3KB

Step 6. If the file has been located and the size of the file is 0 KB, click the CANCEL button and try again. If the size of the file is greater than 0 continue to step 7.

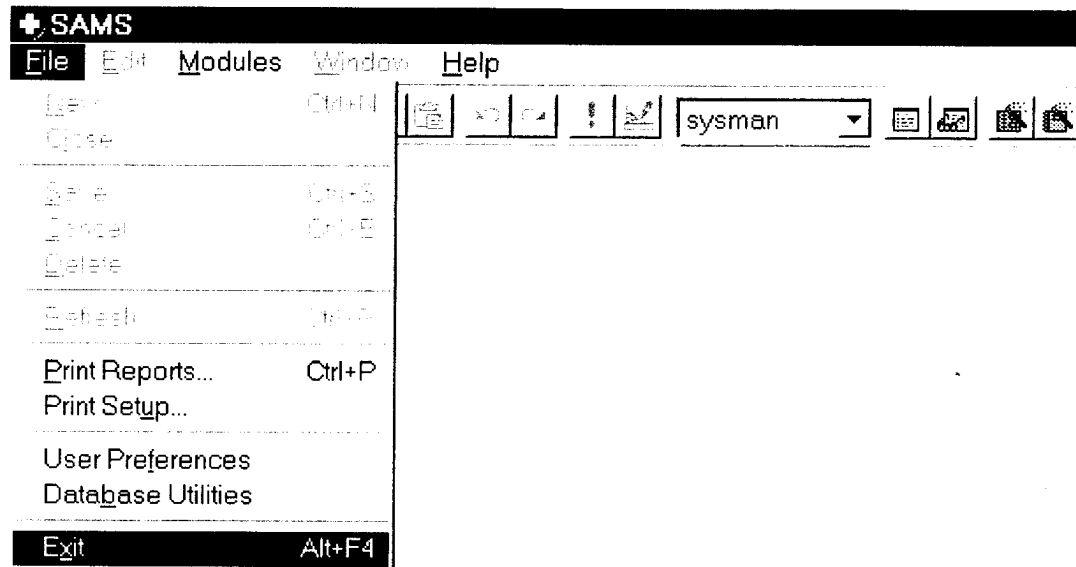
The dialog box titled "SAMS 8.01 - Create NHRC Export Files" contains the following fields and controls:

- Start date:** 12/12/1999
- Stop date:** 12/11/2000
- Dest... Drive Letter:** A: Drive (selected), C
- Progress Information:**
  - Initializing NHRC Library
  - Creating NHRCKey Data Files
  - Service member (mkey) table exported.
  - Demographics (mdem) table exported.
  - Physicals (mphy) had nothing to export.
  - Monitoring (monitor) had nothing to export.
  - Women's Issues (mfem) had nothing to export.
- Buttons:** (Empty), (Empty)



## Appendix C: How to Create an NHRC Diskette

Step 7. Click the File menu and select Exit.



Step 8. Send the file to:

**COMMANDING OFFICER  
NAVAL HEALTH RESEARCH CENTER  
ATTN: FIELD MEDICAL TECHNOLOGIES, CODE 23  
POST OFFICE BOX 85122  
SAN DIEGO CA 92186-5122**

# Appendix A. Data Reference Tables

CLASS	#	FIELD NAME	CAPTION	TYPE	WD EXAMPLE	IND TYPE DE REFERENCE
SMWIZDB -- ROSTER INDEX (path: data\rostindx.dbf)	1	QINDX	Query Index	CHARACTER	18	Y
	2	ROSINDX	Roster Index	NUMERIC	8	Y
	3	QYEAR	Query Year	NUMERIC	8	Y
	4	QMONUM	Query Month Number	NUMERIC	3	
	5	QMONTH	Query Month	CHARACTER	10	
	6	QUARTER	Quarter	CHARACTER	9	Y
	7	AGE	Age	NUMERIC	3	
	8	AGE1	Age Group 1	CHARACTER	10	TABLE smluage.dbf
	9	AGE2	Age Group 2	CHARACTER	10	TABLE smluage2.dbf
	10					
SMWIZDB -- ROSTER (path: data\roster.dbf)	1	SSN	Personal Id	CHARACTER	9	9999999999
	2	DOB	Date of Birth	DATE	8	24-Mar-78
	3	SEX	Sex	CHARACTER	10	FEMALE
	4	RACE	Race	CHARACTER	16	Caucasian
	5	RACE_CAT	Race Category	CHARACTER	13	Caucasian
	6	SERVICE	Branch of Service	CHARACTER	4	
	7	OFF_ENL_C	Officer/Enlisted/Civilian	CHARACTER	9	Officer
	8	RANK	Rank	CHARACTER	9	
	9	GRADE	Pay Grade	CHARACTER	3	
	10	PAYGRTXT	Pay Grade Text	CHARACTER	27	
	11	PAYGRP	Pay Grade Group	CHARACTER	10	
	12	RATE	Pay Rate	CHARACTER	3	
	13	RATETXT	Rate Text	CHARACTER	39	
	14	RATEGRP	Rate Group	CHARACTER	15	
	15	DEPTMTN	Department	CHARACTER	6	
	16	DEPTXT	Department	CHARACTER	19	
	17	DIVISION	Division	CHARACTER	4	
	18	ISIC	ISIC	CHARACTER	9	
	19	SHIPCODE	UIC	CHARACTER	8	
	20	SHIP	Ship	CHARACTER	37	
	21	HULL_NUM	Hull Number	CHARACTER	10	
	22	SHIPTYPE	Ship Type	CHARACTER	7	
	23	TYPE_DESC	Ship Type Description	CHARACTER	25	
	24	HOME_PORT	Home Port	CHARACTER	18	
	25	ARRVDTE	Arrival Date	DATE	8	
	26	DEPRDTE	Departure Date	DATE	8	
	27	ARRYEAR	Arrival Year	NUMERIC	8	

# Appendix A. Data Reference Tables

CLASS	#	FIELD NAME	CAPTION	TYPE	WD EXAMPLE	IND TYPE DE REFERENCE
SMWIZDB -- ENCOUNTER INDE; (path: data\encindx.dbf)	#	ARRMONUM	Arrival Month Number	NUMERIC	3	
		ARRMONTH	Arrival Month	CHARACTER	10	
		DEPRYEAR	Departure Year	NUMERIC	8	
		DEPMONUM	Departure Month Num	NUMERIC	3	
		DEPMONTH	Departure Month	CHARACTER	10	
		DEMINDX	Denom Indx	CHARACTER	15	Y
		ROSINDX	Roster Index	NUMERIC	8	Y
		VISIND	Visit Indicator	CHARACTER	1	
CLASS	#	FIELD NAME	CAPTION	TYPE	WD EXAMPLE	IND TYPE DE REFERENCE
SMWIZDB -- ENCOUNTER (path: data\encount.dbf)	#	QYEAR	Query Year	NUMERIC	8 1998	Y
		QUARTER	Quarter	CHARACTER	9	Y
CLASS	#	FIELD NAME	CAPTION	TYPE	WD EXAMPLE	IND TYPE DE REFERENCE
SMWIZDB -- ENCOUNTER (path: data\encount.dbf)	#	ENCOUNTER	Path -- data\encount.dbf			
		SSN	Encounter ID	CHARACTER	9 111111111	Y
		QINDX	Query Index	CHARACTER	17 111111111_1998_7	Y
		SHIPCODE	UIC	CHARACTER	8 20587	Y
		AGE	Age	NUMERIC	3 26	
		AGE1	Age Group	CHARACTER	10 25-34	
		AGE2	Age Group 2	CHARACTER	10 25-29	
		ENCDATE	Encounter Date	DATE	8 15-Jul-98	Y
		QYEAR	Encounter Year	NUMERIC	8 1998	
		QMONUM	Month Index	NUMERIC	3 7	
		QMONTH	Encounter Month	CHARACTER	10 JULY	
		QUARTER	Quarter	CHARACTER	9	
		ENCTYPE	Encounter Type	CHARACTER	15 ROUTINE	Y
		ENCTNBR	Encounter Number	NUMERIC	3 2	
		VISITNUM	Visit Number	NUMERIC	1 0	
		VISITSTAT	Visit Status	CHARACTER	10	
		DISPTYP	Disposition	CHARACTER	15	
		ESTDAY	Estimated Days Off	NUMERIC	3 0	
		ICD93	ICD9 (3 digit)	CHARACTER	5	
		ICD95	ICD9 (5 digit)	CHARACTER	5	
		DXTXT	Diagnosis Text	CHARACTER	61	
		CLTXT1	Diagnosis Class (17)	CHARACTER	28	
		GRPTXT	Diagnosis Group (90)	CHARACTER	41	

# Appendix A. Data Reference Tables

CLASS	#	FIELD NAME	CAPTION	TYPE	WD	EXAMPLE	IND TYPE	DE REFERENCE
		REPORTABL	Reportable Diseases	CHARACTER	55			
		RPT24	Report Within 24 Hrs.	CHARACTER	1			
		SPECIAL_CA	Special Category	CHARACTER	46			
		DNBICAT	DNBI Category	CHARACTER	30			
		ASSESSMEN	Assessment	CHARACTER	30			
		EVAC	Evacuated?	CHARACTER	1 N			
		EVACDATE	Evacuation Date	DATE	8 - -			
		ACCIDENT	Accident	CHARACTER	15 NO			
		INCDATE	Accident Date	DATE	8 - -			
		ICLOCTN	Accident Location	CHARACTER	40			
		COMPLAINT	Complaint	CHARACTER	80			
		CIRCUM1	Circumstances	CHARACTER	79			
		DUTY	On/Off Duty	CHARACTER	15			
		AFLOAT	Afloat/Ashore	CHARACTER	10			
		SFYHZIN	Safety Hazard	CHARACTER	20			
		MVBI	Motor Vehicle/Battle In	CHARACTER	15			
		DISABLE	Disability	CHARACTER	20			
		LOSSDAY	Approx. Days Lost	NUMERIC	3 0			
		RETURND	Date Returned to Duty	DATE	8 - -			
		SUBCON1	Substance 1	CHARACTER	15			
		SUBCON2	Substance 2	CHARACTER	15			
		SUBCON3	Substance 3	CHARACTER	15			
		SUBCON4	Substance 4	CHARACTER	15			
		SUBCON5	Substance 5	CHARACTER	15			
		SUBCON6	Substance 6	CHARACTER	15			
		SUBCON7	Substance 7	CHARACTER	15			
		SUBCON8	Substance 8	CHARACTER	15			
		SUBCON9	Substance 9	CHARACTER	15			
		UNDINF1	Under the Influence 1	CHARACTER	15			
		UNDINF2	Under the Influence 2	CHARACTER	15			
		UNDINF3	Under the Influence 3	CHARACTER	15			
		UNDINF4	Under the Influence 4	CHARACTER	15			
		UNDINF5	Under the Influence 5	CHARACTER	15			
		UNDINF6	Under the Influence 6	CHARACTER	15			
		UIOTHER	Under the Influence Of	CHARACTER	20			
		UIOTHR2	Under the Influence Of	CHARACTER	79			

# Appendix A. Data Reference Tables

CLASS	#	FIELD NAME	CAPTION	TYPE	WD EXAMPLE	IND TYPE DE REFERENCE
		ENCHECK	Encounter Check	CHARACTER	30	043745794_07/15/1998_2
		LITEDAYS	Light duty days	NUMERIC	6	0
		LOSTDAYS	Lost work days	NUMERIC	6	0
		ADMITS	Admits	NUMERIC	6	0
		DNBGR	DNBI Group	NUMERIC	3	0
		SHIPYEAR	Ship Year	CHARACTER	15	20587_1998
		COMMENT	Accident Comments	CHARACTER	80	

# REPORT DOCUMENTATION PAGE

The public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB Control number. **PLEASE DO NOT RETURN YOUR FORM TO THE ABOVE ADDRESS.**

1. Report Date (DD MM YY) 12-12-00	2. Report Type Interim	3. DATES COVERED (from - to) 96 to Feb 2000
4. TITLE AND SUBTITLE SAMS EPIDEMIOLOGICAL WIZARD (EPIWIZ) USER'S GUIDE		5a. Contract Number:
6. AUTHORS Hoa Ly, Dianna Pearsall, LT Tamara Trank		5b. Grant Number:
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Naval Health Research Center P.O. Box 85122 San Diego, CA 92186-5122		5c. Program Element: 060477IN
8. SPONSORING/MONITORING AGENCY NAMES(S) AND ADDRESS(ES) Chief, Bureau of Medicine and Surgery MED-02 2300 E St NW Washington DC 20372-5300		5d. Project Number:
		5e. Task Number:
		5f. Work Unit Number: 60001
		9. PERFORMING ORGANIZATION REPORT NUMBER Tech Document 01-5E
		10. Sponsor/Monitor's Acronyms(s)
		11. Sponsor/Monitor's Report Number(s)

12 DISTRIBUTION/AVAILABILITY STATEMENT  
Approved for public release; distribution unlimited.

## 13. SUPPLEMENTARY NOTES

## 14. ABSTRACT (maximum 200 words)

Medical surveillance is a critical component of force health protection and is a key factor in maintaining a high state of operational readiness. Naval personnel, such as hospital corpsmen, doctors, epidemiologists, conducting surveillance need up-to-date information regarding disease and injury trends. Aboard Navy ships, these critical medical data are entered into the Shipboard Non-Tactical ADP Program (SNAP) Automated Medical System (SAMS) database. The primary objective of this project is to enhance the medical surveillance capability of SAMS by providing easy access to this information in order to monitor trends, prevent diseases, facilitate reporting, and enhance medical outcomes. Researchers at Naval Health Research Center have developed Epidemiological Wizard (EPIWIZ), a computer program that acts as a technology bridge by extracting data residing in SAMS and transferring these data into Microsoft Excel® software for analysis. EPIWIZ allows the user to generate summary reports used for detecting illness/injury trends. Furthermore, this clinical data analysis tools does not demand any new data entry requirements from the hospital corpsmen since EPIWIZ uses the same information collected during medical examinations.

## 15. SUBJECT TERMS

16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT UNCL	18. NUMBER OF PAGES	19a. NAME OF RESPONSIBLE PERSON Commanding Officer
a. REPORT UNCL	b. ABSTRACT UNCL	c. THIS PAGE UNCL			19b. TELEPHONE NUMBER (INCLUDING AREA CODE) COMM/DSN: (619) 553-8429